

the applicable ABT section must be included as required.

(iii) The production counts for end-of-year reports shall be based on the location of the first point of retail sale (e.g., customer, dealer, secondary manufacturer) by the manufacturer.

(iv) Errors discovered by EPA or the manufacturer in the end-of-year report, including changes in the production counts, may be corrected up to 180 days subsequent to submission of the end-of-year report. Errors discovered by EPA after 180 days shall be corrected if credits are reduced. Errors in the manufacturer's favor will not be corrected if discovered after the 180 day correction period allowed.

(i) Failure by a manufacturer participating in the ABT programs to submit any quarterly or end-of-year report (as applicable) in the specified time for all vehicles and engines that are part of an averaging set is a violation of section 203(a)(1) of the Clean Air Act (42 U.S.C. 7522(a)(1)) for each such vehicle and engine.

(j) Failure by a manufacturer generating credits for deposit only in the HDE banking programs to submit their end-of-year reports in the applicable specified time period (i.e., 90 days after the end of the model year) shall result in the credits not being available for use until such reports are received and reviewed by EPA. Use of projected credits pending EPA review will not be permitted in these circumstances.

(k) Engine families certified using NCPs are not required to meet the requirements outlined in paragraphs (f) through (j) of this section.

(l) [Reserved]. For guidance see § 86.095–23.

(m) Additionally, except for small-volume manufacturers, manufacturers certifying vehicles shall submit for each model year 1998 light-duty vehicle, light-duty truck, and gasoline- and methanol-fueled heavy-duty vehicle evaporative family:

(1) In the application for certification the projected sales volume of evaporative families certifying to the respective evaporative test procedure and accompanying standards as set forth or otherwise referenced in §§ 86.090–8, 86.090–9, 86.091–10 and 86.094–11 or as set forth or otherwise referenced in

§§ 86.096–8, 86.096–9, 86.096–10 and 86.098–11 or as set forth or otherwise referenced in superseding emissions standards sections. Volume projected to be produced for U.S. sale may be used in lieu of projected U.S. sales.

(2) End-of-year reports for each evaporative family.

(i) These end-of-year reports shall be submitted within 90 days of the end of the model year to: For heavy-duty engines—Director, Engine Programs and Compliance Divisions (6403J), For vehicles—Director, Vehicle Compliance and Programs Division (6405J), U.S. Environmental Protection Agency, 1200 Pennsylvania Ave., NW., Washington, DC 20460.

(ii) These reports shall indicate the model year, evaporative family and the actual U.S. sales volume. The manufacturer may petition the Administrator to allow volume produced for U.S. sale to be used in lieu of U.S. sales. Such petition shall be submitted within 30 days of the end of the model year to the Manufacturers Operations Division. For the petition to be granted, the manufacturer must establish to the satisfaction of the Administrator that production volume is functionally equivalent to sales volume.

(iii) The U.S. sales volume for end-of-year reports shall be based on the location of the point of sale to a dealer, distributor, fleet operator, broker, or any other entity that comprises the point of first sale.

(iv) Failure by a manufacturer to submit the end-of-year report within the specified time may result in certificate(s) for the evaporative family(ies) being voided ab initio plus any applicable civil penalties for failure to submit the required information to the Agency.

(v) The information shall be organized in such a way as to allow the Administrator to determine compliance with the Evaporative Emission Testing implementation schedules of §§ 86.096–8, 86.096–9, 86.096–10 and 86.098–11.

[58 FR 16025, Mar. 24, 1993, as amended at 58 FR 34536, June 28, 1993; 59 FR 16290, Apr. 6, 1994; 62 FR 54717, Oct. 21, 1997]

#### § 86.098–24 Test vehicles and engines.

Section 86.098–24 includes text that specifies requirements that differ from

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## § 86.098–24

§ 86.096–24. Where a paragraph in § 86.096–24 is identical and applicable to § 86.098–24, this may be indicated by specifying the corresponding paragraph and the statement “[Reserved]. For guidance see § 86.096–24.”

(a) introductory text through (a)(4) [Reserved]. For guidance see § 86.096–24.

(a)(5) The gasoline-fueled and methanol-fueled light-duty vehicles and light-duty trucks covered by an application for certification will be divided into groupings which are expected to have similar evaporative and/or refueling emission characteristics (as applicable) throughout their useful life. Each group of vehicles with similar evaporative and/or refueling emission characteristics shall be defined as a separate evaporative/refueling emission family.

(a)(6) For gasoline-fueled or methanol-fueled light-duty vehicles and light-duty trucks to be classed in the same evaporative/refueling emission family, vehicles must be similar with respect to the items listed in paragraphs (a)(6) (i) through (xii) of this section.

(i) Type of vapor storage device (e.g., canister, air cleaner, crankcase).

(ii) Basic canister design.

(A) Working capacity—grams adsorption within a 10g. range.

(B) System configuration—number of canisters and method of connection (i.e., series, parallel).

(C) Canister geometry, construction and materials.

(iii) Fuel system.

(iv) Type of refueling emission control system—non-integrated or integrated with the evaporative control system. Further, if the system is non-integrated, whether or not any other evaporative emissions, e.g. diurnal or hot soak emissions, are captured in the same storage device as the refueling emissions.

(v) Fillpipe seal mechanism—mechanical, liquid trap, other.

(vi) Fill limiter system.

(vii) Vapor control system or method of controlling vapor flow through the vapor line to the canister.

(viii) Vapor/liquid separator usage.

(ix) Purge system (valve, purge strategy and calibrations).

(x) Vapor hose diameter and material.

(xi) Canister location (front, rear, mid-vehicle).

(xii) Onboard diagnostic hardware and calibrations.

(a)(7) Where vehicles are of a type which cannot be divided into evaporative/refueling emission families based on the criteria listed above (such as non-canister control system approaches), the Administrator will establish families for those vehicles based upon the features most related to their evaporative and/or refueling emission characteristics.

(a)(8)–(b)(1)(vi) [Reserved]. For guidance see § 86.096–24.

(b)(1)(vii)(A) Vehicles of each evaporative/refueling emission family will be divided into evaporative/refueling emission control systems.

(B) The Administrator will select the vehicle expected to exhibit the highest evaporative and/or refueling emissions, from within each evaporative/refueling family to be certified, from among the vehicles represented by the exhaust emission-data selections for the engine family, unless evaporative and/or refueling testing has already been completed on the vehicle expected to exhibit the highest evaporative and/or refueling emissions for the evaporative/refueling family as part of another engine family's testing.

(C) If the vehicles selected in accordance with paragraph (b)(1)(vii)(B) of this section do not represent each evaporative/refueling emission control system then the Administrator will select the highest expected evaporative/refueling emission vehicle from within the unrepresented evaporative/refueling system.

(viii) For high-altitude evaporative and/or refueling emission compliance for each evaporative/refueling emission family, the manufacturer shall follow one of the following procedures:

(A) The manufacturer will select for testing under high-altitude conditions the one nonexempt vehicle previously selected under paragraph (b)(1)(vii)(B) or (b)(1)(vii)(C) of this section which is expected to have the highest level of evaporative and/or refueling emissions when operated at high altitude; or

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(B) [Reserved]. For guidance see § 86.096–24.

(b)(ix)–(e)(2) [Reserved]. For guidance see § 86.096–24.

(f) *Carryover and carryacross of durability and emission data.* In lieu of testing an emission-data or durability vehicle (or engine) selected under paragraph (b)(1) (vii) through (viii) of this section and § 86.096–24 (b)(1) (i) through (vii) and (b)(2) through (c), and submitting data therefor, a manufacturer may, with the prior written approval of the Administrator, submit exhaust emission data, evaporative emission data and/or refueling emission data, as applicable on a similar vehicle (or engine) for which certification has been obtained or for which all applicable data required under § 86.098–23 has previously been submitted.

(g)–(h) [Reserved]. For guidance see § 86.096–24.

[59 FR 16290, Apr. 6, 1994]

## § 86.098–25 Maintenance.

Section 86.098–25 includes text that specifies requirements that differ from § 86.094–25. Where a paragraph in § 86.094–25 is identical and applicable to § 86.098–25, this may be indicated by specifying the corresponding paragraph and the statement “[Reserved]. For guidance see § 86.094–25.”

(a)(1) [Reserved]. For guidance see § 86.094–25.

(a)(2) Maintenance performed on vehicles, engines, subsystems, or components used to determine exhaust, evaporative or refueling emission deterioration factors is classified as either emission-related or non-emission-related and each of these can be classified as either scheduled or unscheduled. Further, some emission-related maintenance is also classified as critical emission-related maintenance.

(b) introductory text through (b)(3)(vi)(D) [Reserved]. For guidance see § 86.094–25.

(b)(3)(vi)(E) Evaporative and/or refueling emission canister(s).

(F) Turbochargers.

(G) Carburetors.

(H) Superchargers.

(I) EGR System including all related filters and control valves.

(J) Mechanical fillpipe seals.

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(b)(3)(vii)–(b)(6)(i)(E) [Reserved]. For guidance see § 86.094–25.

(b)(6)(i)(F) Evaporative and refueling emission control system components (excluding canister air filter).

(b)(6)(i)(G)–(h) [Reserved]. For guidance see § 86.094–25.

[59 FR 16291, Apr. 6, 1994]

## § 86.098–26 Mileage and service accumulation; emission measurements.

Section 86.098–26 includes text that specifies requirements that differ from § 86.094–26, § 86.095–26 or § 86.096–26. Where a paragraph in § 86.094–26, § 86.095–26 or § 86.096–26 is identical and applicable to § 86.098–26, this may be indicated by specifying the corresponding paragraph and the statement “[Reserved]. For guidance see § 86.094–26.” or “[Reserved]. For guidance see § 86.095–26.” or “[Reserved]. For guidance see § 86.096–26.”.

(a)(1) and (2) [Reserved]. For guidance see § 86.094–26.

(a)(3) *Emission data vehicles.* Unless otherwise provided for in § 86.098–23(a), emission-data vehicles shall be operated and tested as described in paragraphs (a)(3)(i) and (ii)(C) of this section and § 86.094–26 (a)(3)(ii)(A), (B) and (D).

(i) *Otto-cycle.* (A) The manufacturer shall determine, for each engine family, the mileage at which the engine-system combination is stabilized for emission-data testing. The manufacturer shall maintain, and provide to the Administrator if requested, a record of the rationale used in making this determination. The manufacturer may elect to accumulate 4,000 miles on each test vehicle within an engine family without making a determination. The manufacturer must accumulate a minimum of 2,000 miles (3,219 kilometers) on each test vehicle within an engine family. All test vehicle mileage must be accurately determined, recorded, and reported to the Administrator. Any vehicle used to represent emission-data vehicle selections under § 86.098–24(b)(1) shall be equipped with an engine and emission control system that has accumulated the mileage the manufacturer chose to accumulate on the test vehicle. Fuel economy data generated from certification vehicles selected in accordance with § 86.098–